

CA SCHEME

PROJECT: Diversion of forest land to an extent of 162.457 Ha in Indaram RF for grant of Mining Lease for Srirampur Open Cost-II Expansion Project in Jaipur Mandal of Mancheria District in favour of S.C.Co.Ltd., Srirampur of Mancheria Forest Division.

CA LOCATION: Compt. No.687, 688, 689, 690 & 805 of Venkatapur Beat, Jaipur Section and 691, 693, 698 of Mancheria Beat of Mancheria Section in Mancheria Range of Mancheria Division of RF Indaram & Indaram Ext.II Blocks.

CA AREA: Degraded Forest Land to an extent of 324.90 Ha

**USER AGENCY: M/s. Singareni Collieries Company Ltd.,
Srirampur Area**

Division: Mancheria Forest Division

District: Mancheria

CA Scheme for Degraded Forest Land to an extent of 324.90 Ha in Indaram RF in lieu of diversion for grant of Mining Lease for Srirampur Open Cost-II Expansion Project in Jaipur Mandal of Mancherial District in favour of S.C.Co.Ltd., Srirampur of Mancherial Forest Division.

1.0 INTRODUCTION :

The S.C.Co.Ltd., Srirampur has submitted the proposals for Diversion of 162.457 Ha. of forest land in Mancherial Division For grant of Mining Lease for Srirampur Open Cost-II Expansion Project in Jaipur Mandal of Mancherial District in favour of S.C.Co.Ltd., Srirampur of Mancherial Forest Division.

1.1 The Principal Chief Conservator of Forests (HoFF) Telangana, Hyderabad vide Rc.No.9917/2017/FCA-1/PS, Dated: 28.11.2017 has requested to submit the CA scheme with 10 years maintenance along with co-ordinates in Topo Map as per the following guidelines.

1. As per the 2.5(i) (b) of Hand Book on Forest (Conservation) Act, 1980 & Forest (Conservation) Rules 2003 communicated by the GoI, MoEF&CC, New Delhi in F.No.5-2/2017-FC, Dated: 28.03.2019, Compensatory Afforestation raised and maintained at the cost of the User agency on degraded forest land, **in the cases of grant of Open Cost Mining Lease.**

Accordingly, the Forest Range Officer, Mancherial has identified the degraded forest land to an extent of 324.90 Ha. in two different locations i.e. Compt. No.687, 688, 689, 690 & 805 of Venkatapur Beat, Jaipur Section and 691, 693, 698 of Mancherial Beat of Mancherial Section in Mancherial Range of Mancherial Division of RF Indaram & Indaram Ext.II Blocks for the purpose of CA.

1). Compensatory Afforestation : Out of 324.90 Ha., of Degraded Forest Land identified an extent of **170.00 Ha.** is proposed for Raising of Planation under SMM Method and 154.9 Ha. is proposed for Rejuvenation of Forest by taking-up ANR works under Compensatory Afforestation scheme as follows:

Degraded Forest Land Area:

Sl. No.	Compt. No.	Beat	Section	Range	Total Area Ha.	Remarks
1.	687, 688, 689, 690 & 805	Venkatapur	Jaipur	Mancherial	224.90	
2.	691, 693, 698	Mancherial	Mancherial	Mancherial	100.00	
				Total:	324.90	

The proposals have been prepared with a cost of **Rs. 1789.765 Lakhs.** The year wise scheme proposals are annexed.

This scheme will be implemented and monitored by the Forest Department at various levels.

The Compensatory Afforestation is prepared over an area of **324.90Ha** of Degraded Forest Land basing on the Forest Schedule of Rates for the year 2020-21 of Zone-II with an escalation of 10% for the subsequent years, provided the funds are to be deposited and released during the year 2020-21.

2.0 AIMS AND OBJECTIVES

The objectives of the scheme are as follows:

- 2.1 For regeneration of Forest which is lost due to the above said project.
- 2.2 To compensatory loss of forest and for ecological balance.
- 2.3 To fulfil broader objective of sustainable environmental conservation for the general good of the people.

3.0 ELEMENTS OF THE PROJECT

- 3.1 Details of the Degraded Forest Land is identified for raising compensatory afforestation is as follows:

3.2 LOCATION

The proposed Compensatory Afforestation area for degraded forest land to an extent of **324.90Ha** is identified in two different locations i.e. Compt. No.687, 688, 689, 690 & 805 of Venkatapur Beat, Jaipur Section and 691, 693, 698 of Mancherial Beat of Mancherial Section in Mancherial Range of Mancherial Division of RF Indaram & Indaram Ext.II Blocks.

3.4 GEOLOGY

The geology of the area proposed for Compensatory Afforestation is Gondwana formation supporting mixed forests.

3.5 SOIL

The soil of the area proposed for Compensatory Afforestation is morram soil.

3.6 CLIMATE

The climate is fairly dry with very hot summer and cool winters. During summer, the temperature rises up to 47⁰ Centigrade. Summer and winter are separated by prolonged rainy season. The area is served by South-West Monsoon. However Cyclonic rains are common during October - December.

3.7 METHOD OF RAISING PLANTATION:

- a) **Tehcnique:** Semi Mechanical Method and Maintenance for (10) years is proposed in 170 Ha. and Rejuvenation of Forest by taking ANR works is proposed in 154.9 Ha.
- b) **ESPACEMENT:** SMM 3 m x 3 m i.e., 1111 plants per Ha. & Gap Planting 200 Plants per Ha.
- c) **CHOICE OF SPECIES:** Only local forestry species are proposed to be planted. *Maduca indica*, *Terminalia tomentosa*, *Terminalia chebula*, *Holoptelia integrefolia*, *Sommida febrifuga* & *Dalbergia latifolia*, *Buddadermi*, *Bamboo*, *All Ficus species*, *Neem*, *Usiri*, *Jamoon*, *Albezia procera*, *Albezia odortissima*, etc.
- d) **PROTECTION OF THE PLANTATION:** Since there is lot of biotic pressure in the area proposed for CA, CPT is proposed for successfully raising the plantation. Unless CPT is provided the plantation cannot be protected and the survival will be difficult.

3.8 DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION

The details of work schedule proposed for compensatory afforestation year wise is as follows:

Sl. No.	Year	Proposed Works
1	2021-22	Raising of Bag Plants nursery
2	2022-23	Maintenance of Bag Plants , Conversion of bag plants, Advance operations, SMC works & Cultural Operation
3	2023-24	Raising operations under SM Method in 170 Ha. & Gap Planting in 155 Ha.
4	2024-25	1 st Year Maintenance
5	2025-26	2 nd Year Maintenance
6	2026-27	3 rd Year Maintenance.
7	2027-28	4 th Year Maintenance.
8	2028-29	5 th Year Maintenance.
9	2029-30	6 th Year Maintenance.
10	2030-31	7 th Year Maintenance.
11	2031-32	8 th Year Maintenance.
12	2032-33	9 th Year Maintenance.
13	2033-34	10 th Year Maintenance.

3.9 COST STRUCTURE

A Compensatory Afforestation Scheme for **Rs. 1789.765 Lakhs** is prepared. The year wise expenditure will be as hereunder:

Sl No	Year	Financial (Rs.in Lakhs)
1	2	3
1	2021-22	136.8915
2	2022-23	342.5589
3	2023-24	447.7686
4	2024-25	347.6383
5	2025-26	150.4149
6	2026-27	70.99622
7	2027-28	53.00379
8	2028-29	52.29078
9	2029-30	29.1994
10	2030-31	38.50761
11	2031-32	30.54401
12	2032-33	46.59421
13	2033-34	36.95825
14	2034-35	6.398433
	Total	1789.765

4.0 COST STRUCTURE OF PLANTATIONS

The cost structure of Compensatory Afforestation including the cost structure for various components of raising and maintenance of plantation for Improvement of Degraded Natural Forests is appended.

4.1 PROVISION OF FUNDS

The funds for the Compensatory Afforestation have to be deposited by the user agency in favour of Telangana Forest Department by following due procedure

through e-payment method by generating the Challan form the Ministry's web portal (parivesh.nic.in). These funds will be utilized by the Forest Divisional Officer, Mancherial for Nurseries, Plantations and their maintenance as per the detailed annual plan after obtaining the approval and funds from the competent authority.

4.2 OFFICE EXPENSES AND CONTINGENCIES RECURRING

The amount proposed towards Administrative cost are appended.

4.3 CAPITAL EXPENDITURE NON-RECURRING

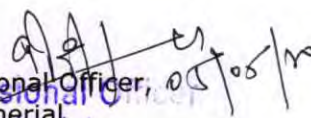
No amount is proposed towards non-recurring expenditure.

4.4 SCHEME PERIOD

This scheme will be implemented over a period of (14) years commencing from 2021-22. The details of cash flow required for the entire project period is furnished in annexure.

4.5 DETAILS OF PROPOSED MONITORING MECHANISM

The Forest Range Officer, Mancherial, Forest Divisional Officer, Mancherial and District Forest Officer, Mancherial & the Conservator of Forests, Adilabad Circle, Adilabad shall monitor the implementation of the conditions of Compensatory Afforestation and the survival of the plants planted.


Forest Divisional Officer,
Mancherial

Degraded forest land CA in Manceheial Compt. No. 691, 693, 698 & Venkatapur beat 687,688, 689, 690 and 805 in lieu of Diversion of 162.457 Ha of forest land in Indaram RF, Mancheril Range of Mancheril Forest Division in Mancheril District for grant of Mining lease for Srirampur Open Cast-II Expansion Project in Jaipur Mandal, Mancheril District in favour of M/s. Singareni Collieries Company Limited, Srirampur Area, Mancheril District

Sl. No	Item of Work	Phy	Unit Cost 2020-21(Rs.)	2021-22			2022-23			2023 - 24			2024 - 25			2025 - 26			2026 - 27			2027 - 28		
				Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)
1	2			12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
I	Nursery activities																							
1	Raising of Primary beds	Plant	0.3381	250000	0.40909	1.023	150000	0.450000	0.675															
2	Raising of Bag Plants of 6"x8"	Plant	5.7881	250000	7.00363	17.509	150000	7.703997	11.556															
3	Maintenance of Bag Plants of 6"x8"	Plant	2.1678		2.62299		250000	2.88529	7.213	150000	3.1738	4.761												
4	Conversion of bag plants from 6"x8" to 12"x13"	Plant	33.9169		41.03945		250000	45.14339	112.858	150000	49.6577	74.487												
5	Maintenance of Bag Plants of 12"x13"	Plant	9.0200		10.91420			12.00562		250000	13.20618	33.015	150000	14.52680	36.317									
6	Upgradation of central nursery	LS	500000	2	500000	10.000																		
	Sub Total:					28.532			132.303			112.263			36.317			0.000			0.000			0.000
II	Planting activities -SMM -170 Ha @1111 per Ha																							
7	Advance Operations	Ha	20750	0.00	25107.5	0.000	100.00	27618.25	27.618	70.00	30380.08	21.266												
8	Raising of Plantation	Ha	117140				0.00	155913.22	0.000	100.00	171504.54	171.505	70.00	188655.00	132.058									
9	1st Year Maintenance	Ha	61300							0.00	89749.20	0.000	100.00	98724.12	98.724	70.00	108596.53	76.018						
10	2nd Year Maintenance	Ha	17792										0.00	28654.48	0.000	100.00	31519.92	31.520	70.00	34671.92	24.270			
11	3rd Year Maintenance	Ha	12639													0.00	22390.26	0.000	100.00	24629.29	24.629	70.00	27092.22	18.965
12	4th Year Maintenance	Ha	9880																0.00	19253.84	0.000	100.00	21179.23	21.179
13	5th Year Maintenance	Ha	9880																			0.00	21179.23	0.000
14	6th Year Maintenance	Ha	1989																					
15	7th Year Maintenance	Ha	7899																					
16	8th Year Maintenance	Ha	1989																					
17	9th Year Maintenance	Ha	7899																					
18	10th Year Maintenance	Ha	1989																					
	Sub Total:					0.000			27.618			192.771			230.783			107.537			48.900			40.144
III	Rejuvenation ANR activities 155 ha @ 200 plants/ha																							
7	Advance Operations	Ha	25474	0.00	30823.5	0.000	155.00	33905.89	52.554		37296.48	0.000												
8	Raising of Plantation	Ha	21304				0.00	28355.55	0.000	155.00	31191.11	48.346	0.00	34310.22	0.000									
9	1st Year Maintenance	Ha	19603							0.00	28701.01	0.000	155.00	31571.11	48.935	0.00	34728.22	0.000						
10	2nd Year Maintenance	Ha	10635										0.00	17128.06	0.000	155.00	18840.86	29.203	0.00	20724.95	0.000			
11	3rd Year Maintenance	Ha	5179													0.00	9174.42	0.000	155.00	10091.86	15.642	0.00	11101.05	0.000
12	4th Year Maintenance	Ha	2420																0.00	4716.41	0.000	155.00	5188.05	8.041
13	5th Year Maintenance	Ha	2170																			0.00	4652.16	0.000
14	6th Year Maintenance	Ha	857																					
15	7th Year Maintenance	Ha	1921																					
16	8th Year Maintenance	Ha	857																					
17	9th Year Maintenance	Ha	1921																					
18	10th Year Maintenance	Ha	857																					
19	Cultural operations	Ha	8000	0.00	9680.0	0.000	155.00	10648.00	16.504															
	Sub Total:					0.000			69.059			48.346			48.935			29.203			15.642			8.041

Sl. No	Item of Work	Phy	Unit Cost 2020-21 (Rs.)	2021-22			2022-23			2023-24			2024-25			2025-26			2026-27			2027-28		
				Phy	Unit Cost (Rs.)	Fin (Rs. in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs. in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs. in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs. in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs. in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs. in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs. in Lakhs)
IV	Others																							
20	Digging of borewell & installation of Solar pump	No	450000	1	544500.0	5.445	1.00	598950	5.990	1.00	658845	6.588												
21	Collection & Cost of Seed for Grass land	LS				5.000																		
22	Rasing of fodder plots for the wildlife with chainlink fence of 1 ha each- 4 units.	LS	250000	2	275000.0	5.500	2.00	302500.00	6.050															
23	Mangement of natural grasslands	ha	17000	20	18700.0	3.740	20.00	20570.00	4.114															
	Sub Total:					19.685			16.154			6.588			0.000			0.000			0.000			0.000
IV	SMC Works																							
29	Digging of CPT in km	km	150000	6.00	181500	10.890	6	199650	11.979															
30	Bund plantation in km	km	30000		36300		6.00	39930	2.396	6.00	43923	2.635												
31	Construction of Percolation Tanks	No	200000	5.00	242000	12.100	5	266200.00	13.310															
32	Construction of Mini Percolation Tanks	No	50000	5.00	60500	3.025	5	66550.00	3.328	5	73205.00	3.660												
33	Construction of Checkdams	No	1500000	1.00	1815000	18.150	2	19.97	0.000	1.00	200000.00	2.000												
34	Staggered trenches	cum	265	10000	321	32.065	10000	352.72	35.272	10000	387.99	38.799												
	Sub Total:					76.230			66.284			47.094			0.000			0.000			0.000			0.000
	Total:					124.447			311.417			407.062			316.035			136.741			64.542			48.185
V	Adminstrative cost 10%					12.445			31.142			40.706			31.603			13.674			6.454			4.819
	Grand Total					136.891			342.559			447.769			347.638			150.415			70.996			53.004

Degreded forest land CA in Manceheial Compt. No. 691, 693, 69
Mining lease for Srirampur O

Sl. No	Item of Work	2028 - 29			2029 - 30			2030 - 31			2031- 32			2031- 32			2032-33			2033-34			Grand Total	
		Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Fin
1	2	33	34	35	36	37	38	39	40	41	39	40	41	39	40	41	39	40	41	39	40	41	51	52
I	Nursery activities																							
1	Raising of Primary beds																						400000	1.698
2	Raising of Bag Plants of 6"x8"																						400000	29.065
3	Maintenance of Bag Plants of 6"x8"																						400000	11.974
4	Conversion of bag plants from 6"x8" to 12"x13"																						400000	187.345
5	Maintenance of Bag Plants of 12"x13"																						400000	69.332
6	Upgradation of central nursery																							10.000
Sub Total:				0.000			0.000			0.000			0.000			0.000			0.000			0.000		309.414
II	Planting activities -SMM -170 Ha @1111 per Ha																							
7	Advance Operations																						170	48.884
8	Raising of Plantation																						170	303.563
9	1st Year Maintenance																						170	174.742
10	2nd Year Maintenance																						170	55.790
11	3rd Year Maintenance																						170	43.594
12	4th Year Maintenance	70.00	23297.15	16.308																			170	37.487
13	5th Year Maintenance	100.00	23297.15	23.297	70.00	25626.86	17.939																170	41.236
14	6th Year Maintenance	0.00	4690.58	0.000	100.00	5159.64	5.160	70.00	5675.61	3.973												170	9.133	
15	7th Year Maintenance				0.00	20488.66	0.000	100.00	22537.52	22.538	70.00	24791.28	17.354									170	39.891	
16	8th Year Maintenance							0.00	5675.61	0.000	100.00	6243.17	6.243	70.00	6867.48	4.807						170	11.050	
17	9th Year Maintenance										0.00	24791.28	0.000	100.00	27270.41	27.270	70.00	29997.45	20.998			170	48.269	
18	10th Year Maintenance													0.00	6867.48	0.000	100.00	7554.23	7.554	70.00	8309.65	5.817	170	13.371
Sub Total:				39.605			23.098			26.510			23.597			32.078			28.552			5.817		827.010
III	Rejuvenation ANR activities 155 ha @ 200 plants/ha																							
7	Advance Operations																						155	52.554
8	Raising of Plantation																						155	48.346
9	1st Year Maintenance																						155	48.935
10	2nd Year Maintenance																						155	29.203
11	3rd Year Maintenance																						155	15.642
12	4th Year Maintenance	0.00	5706.86	0.000																			155	8.041
13	5th Year Maintenance	155.00	5117.37	7.932	0.00	5629.11	0.000																155	7.932
14	6th Year Maintenance	0.00	2021.39	0.000	155.00	2223.52	3.446	0.00	2445.88	0.000												155	3.446	
15	7th Year Maintenance				0.00	4983.27	0.000	155.00	5481.59	8.496	0.00	6029.75	0.000									155	8.496	
16	8th Year Maintenance							0.00	2445.88	0.000	155.00	2690.46	4.170	0.00	2959.51	0.000						155	4.170	
17	9th Year Maintenance										0.00	6029.75	0.000	155.00	6632.73	10.281	0.00	7296.00	0.000			155	10.281	
18	10th Year Maintenance													0.00	2959.51	0.000	155.00	3255.46	5.046	0.00	3581.01	0.000	155	5.046
19	Cultural operations																						155	16.504
Sub Total:				7.932			3.446			8.496			4.170			10.281			5.046			0.000		258.599

Sl. No	Item of Work	2028 - 29			2029 - 30			2030 - 31			2031- 32			2031- 32			2032-33			2033-34			Grand Total	
		Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Fin
IV	Others																							
20	Digging of borewell & installation of Solar pump																							18.023
21	Collection & Cost of Seed for Grass land																						0	5.000
22	Rasing of fodder plots for the wildlife with chainlink fence of 1 ha each- 4 units.																							11.550
23	Mangement of natural grasslands																							7.854
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			0.000		42.427
IV	SMC Works																							
29	Digging of CPT in km																						12	22.869
30	Bund plantation in km																						12	5.031
31	Construction of Percolation Tanks																						10	25.410
32	Construction of Mini Percolation Tanks																						15	10.013
33	Construction of Checkdams																						4	20.150
34	Staggered trenches																						30000	106.135
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			0.000		189.608
	Total:			47.537			26.545			35.007			27.767			42.358			33.598			5.817		1627.059
V	Administrative cost 10%			4.754			2.654			3.501			2.777			4.236			3.360			0.582		162.706
	Grand Total			52.291			29.199			38.508			30.544			46.594			36.958			6.398		1789.765

Forest Divisional Officer
Mancherial

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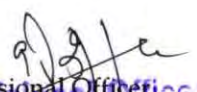
District Forest Officer
Mancherial

Counter Signed

Conservator of Forests &
Field Director Project Tiger,
Kawal Tiger Reserve, Nirmal.

UNIT COST FOR RAISING OF PRIMARY BEDS

Sl. No.	FSR-2020-21 Code	Item of work	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	7
1	01.00.00	PRIMARY BEDS of 1x1x0.3 m size for Miscellaneous species including bamboo - 50 primary beds for 1 lakh nursery is permitted. Primary beds should start from Jan - May depending on availability of fresh seeds. Once primary beds are formed, they can be used upto 5 years without changing the medium - what is required each time is solarization, burning a layer of grass on it and adding the below recommended fungicides and insecticides to the medium.			
2	01.01.01	Preparation of New Site by clearing jungle growth, uprootal of stumps and removal of surface stones, pebbles etc.	Bed	5.20	5.20
3	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	Bed	40.06	40.06
4	01.01.04	Cost of sandy soil and transportation with 5 kms lead including loading and unloading charges (sandy soil and FYM in 5:1 ratio, i.e., 0.125 cum sandy soil and 0.025 cum FYM per primary bed	Bed	30.2925	30.29
5	01.01.05	For every extra km beyond 5 km upto 25 km	Bed	1.15	1.15
6	01.01.06	Cost and transport of 0.025 cum FYM	Bed	26.04	26.04
7	01.01.07	Mixing of sandy soil and FYM in 5:1 proportion (50 % of volume of bed) with excavated soil and refilling the bed and lavelling.	Bed	11.39	11.39
8	01.01.08	Covering the beds with dried grass and leaf litter and burning them to ash which can form the upper layer	Bed	13.02	13.02
10	01.01.10	Cost of seed - seed weight, germination percentage and target of planting stock of individual species are to be taken into consideration while estimating the requirement of seeds	Bed	350.00	350.00
11	01.01.12	Sowing of seed (finer seeds like Adina, Mitragyna, Anthocephalus etc. to be mixed with sand and bradcasted - Bigger seeds to be dibbled in lines 1-2 cm apart) and covering the bed to a thickness of 2.5 cm with paddy hay including cost and conveyance	Bed	12.97	12.97
12	01.01.13	Watering the primary nursery beds with rose water cans twice daily for a maximum period of 2 months.	45 Days	14.60	14.60
13	01.01.14	Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only), if required. In all such permanent primary beds, no incurring of expenditure for making the primary beds every year is permitted except for cost of fungicides.	Bed	39.00	39.00
14	01.01.15	Cost of chemicals, fungicide and insecticide	Bed	39.00	39.00
16		Electrical Charges		32.00	32.00
		Total			614.71
		Rasing of seedlings 110% for abtaining 100%		10%	61.47
		Total			676.18
		cost of each plant (2000 plants per bed)			0.34

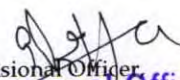

 Forest Divisional Officer
 Mancherial
 Mancherial

UNIT COST FOR BAG PLANT NURSERY

Sl. No.	FSR-2020-21 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs)	Per	
	01.03.	BAG PLANT NURSERY: Seedlings need to be raised in 4"x7" (200 gauge) or 5"x9" (250 gauge) bags which are to be converted into 6"x12" (400 gauge) or 8"x12" (400 gauge) or 10"x16" (400 gauge) polybags. The seedlings are to be transplanted from primary beds in February - March. Hence the bags are to be filled during January - February when the soil is dry.					
		Raising of Nursery in Polythene bags in sizes of 4"x7" (200 gauge) or 6"x8" (250 gauge) bags and arranging in secondary beds (Bed size: 10.00 m X 1.00 m).					
1	01.03.01	Site preparation for New Sites - Clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts etc.	Bed	1	52.08	1	52.08
		Cost of Polybags (including the cost of certification by): To ensure quality control, the quality of bags have to be certified by CIPET (Central Institute of Plastic Engineering & Technology), Hyderabad at the cost of tenderer by taking samples from various lots of polybags.					
2	01.03.03	(b) 15.00 cm x 20.00cm(6" x 8") size bags: 250 g: 275 Nos / kg (1100 + 15% = 1265) (1265/275 = 209.09 Kgs)	Kg	4.60	180.00	1	828.00
	0.1.03.04	Cost and Transport of ingredients for Potting Mixture: (As per CSSR) Red Soil, tank-silt, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals.					
	01.03.05	Distance upto 5 km					
3	01.03.05	(c) 15.00 Cm X 20.00 cm(6" X 8") size Gusseted Polybags of 250 gauge : 1.433 Cu.m Volume for 1000 bags	No's	1100	529.99	1000	582.99
	01.03.06	For every extra km beyond 5 km upto 25 km					
4	01.03.06	12.5 cm x 22..5 cm (5" x 9") = 1.12 cum vol. for 1000 bags (20 Kms x 13.18 = 206.00)	No's	1100	263.60	1000	289.96
	01.03.08	Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds.					
5	01.03.08	(c) 15.00 Cm X 20.00 cm(6" X 8") 1100 bags per bed	No's	1100	1048.37	1000	1153.21
6	01.03.09	Alignment of beds including alignment of inspection paths etc	Bed	1	7.98	1	7.98
7	01.03.10	Pricking out seedlings from primary beds and transplanting into polybags	No's	1100	147.74	1000	162.51
8	01.03.11	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	No's	1100	83.70	1000	92.07
9	01.03.12	Watering the plants (2 Months) twice a day from Feb-March - a)					
		Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed	4	286.76	1	1147.04
10	01.03.13	Weeding to be done for every 2 months from the date of transplantation up to March	Bed	4	52.66	1	210.64
11	01.03.14	1st shifting and grading after three months and consecutive shifting and grading after every two months till the nursery stock is lifted	Bed	1	245.96	1	245.96
12	01.03.15	Replacement of casualties after sorting out the empty bags and keeping at one end of the bed (maximum 10% of total stock is permissible)	Bed	1	69.83	1	69.83
13	01.03.16	Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.	Bed	1	34.00	1	34.00
14	01.03.18	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	2	35.91	1	71.82

15	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Bed	4	9194	100	367.76
16		Electricity charges					300.00
		Total					5615.85
17		Add casualty 10%					751.09
		2020-21 Grand Total					6366.94
		cost of each plant (1100 plants per bed)					5.7881

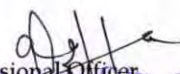
10% escalation every year


 Forest Divisional Officer
 Mancherla

UNIT COST FOR MAINTENANCE OF BAG PLANTS (6"x8")

Sl. No.	FSR-2020-21 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs)	Per	
		MAINTENANCE OF BAG PLANTS NURSERY UPTO PLANTING SEASON (APRIL TO AUGUST) for 10 m X 1 m size secondary beds (2600 Nos of 4" X 7" bags; 1700 Nos of 5" X9" bags ; 1100 Nos. of 6"X12" bags; 800 Nos. of 8"X12" bags; 400 Nos. of 10"x16" bags per bed)					
1	01.03.19	(a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed	5	273.10	1	1365.50
2	01.03.20	Weeding the beds during May & July	Bed	2	52.66	1	105.32
3	01.03.21	Shifting, grading and rearrangement in beds	Bed	1	245.96	1	245.96
4		Electricity charges					300.00
5	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Bed	4	9194	100	367.76
		2020-21 Total					2384.54
		cost of each plant (1100 plants per bed)					2.1678

10% escalation every year

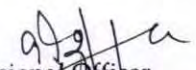

 Forest Divisional Officer
 Mancherla

UNIT COST FOR CONVERSION FROM 6"x8" to 12"x13"

Sl. No.	FSR-2020-21 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs)	Per	
		CONVERSION of Root Trainer plants or 6"x8" or 12"x13" bag-plants into higher size bags - to be done during September - October. At the time of conversion, the height of the plants should be at least above 0.45m in height (excluding the height of polybag).					
		Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt / clayey soil, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals.					
	01.03.03	Cost of Gusseted Polybags (including the cost of certification by): To ensure quality control, the quality of bags have to be certified by CIPET (Central Institute of Plastic Engineering & Technology), Hyderabad at the cost of tenderer by taking samples from various lots of polybags.					
		g) 30 cm x 32.50 cm (12" x 13") size Gusseted Polybags: 400g, 52 bags/ kg (300 + 15% = 345) (345/52 = 6.63 Kgs)	Kgs	6.635	180.00	1	1194.23
	01.03.24	Transportation of soil mixture ingredients					
		Distance up to 5 km					
1	c	(k) 6" x 8" to 12" x 13" bags (9.315 - 1.433 = 7.882 cum) (20 Km x 72.40 = 1448.00)	No	300	1448.00	1000	434.40
	01.03.25	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance					
2	c	(f) 6" x 8" to 12" x 13" bags (9.315 - 1.433 = 7.882 cum)	No	300	4112.55	1000	1233.77
	01.03.27	Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture partially, tearing the polybag plants and repotting them inside bigger bags and filling the rest of bags; gently pressing the same with finger tips and arranging in beds of 10x1 m size (6"x12" size: 1100 bag plants / bed and 8"x12" size": 800 bag plants per bed)					
3	c	6" x 8" to 12" x 13" bags (9.315 - 1.433 = 7.882 cum)	No	300	5196.99	1000	1559.10
	01.03.33	Weeding the plants (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags) from November - March: 2 weeding					
4		Weeding the plants (2 weeding)	Bed	2	52.66	1	105.32
5	01.03.34	Shifting, Grading and rearranging in secondary beds - One Grading in February	Bed	2	245.96	1	491.92
	01.03.35	Watering the plants manually twice a day (from Novemebr - March) with rose spray or finely perforated nozzle attached to a hose pipe.					
6	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed	5	286.81	1	1434.05
	01.03.37	Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.					30.00

7	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Bed	4	9194	100	367.76
8		Cost of the polythene bags					2340.00
9	01.03.39	Electricity charges					500.00
		Total					9690.54
10	01.03.38	Contingencies @ 5%					484.527
		2020-21 Total for 300 plants					10175.07
		cost of each plant					33.9169

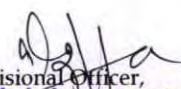
10% escalation every year


 Forest Divisional Officer,
 Mancherial
 Mancherial

UNIT COST FOR MAINTENANCE OF BAG PLANTS (April to August)

Sl. No.	FSR-2020-21 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs.)	Per	
	01.04.00	MAINTENANCE OF BAG PLANTS NURSERY UPTO PLANTING SEASON (APRIL TO AUGUST) for 10 m X 1 m size secondary beds (2600 Nos of 4" X 7" bags; 1700 Nos of 5" X9" bags ; 1100 Nos. of 6"X12" bags; 800 Nos. of 8"X12" bags; 300 Nos. of 12"x13" bags: 400 Nos. of 10"x16" bags per bed)					
	01.04.01	Watering polybag secondary beds twice a day for 4 months					
1	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed/month	4	273.10	1	1092.40
2	01.04.02	Weeding once during maintenance year	Bed/weeding	1	52.66	1	52.66
3	01.04.03	Shifting, grading and rearrangement in beds	Bed/shifting	2	245.96	1	491.92
4	01.04.05	Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from April to August	As per actuals	1	20.00	1	20.00
	01.04.06	Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)					
5	a	Cost and transportation of fresh cowdung	As per actuals	1	25.00	1	25.00
6	01.04.07	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	1	28.98	1	28.98
7	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak bedsor combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Watcher/ month	4	9194.00	100	367.76
8	01.04.09	Electricity charges			500.00		500.00
		Total					2578.72
9	01.04.08	Contingencies @ 5%					128.94
		2020-21 Total					2707.66
		cost of each plant (300 Plants per bed)					9.0255

10% escalation every year


 Forest Divisional Officer,
 Mancherla
 Mancherla

UNIT COST FOR MAINTENANCE OF BAG PLANTS (September to till disposal)

Sl. No.	FSR-2020-21 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs.)	Per	
		MAINTENANCE OF BAG NURSERY FROM SEPTEMBER TO TILL DISPOSAL					
1	01.05.01	Watering plants for 10 m X 1 m size secondary bed	Bed/month	4	177.14	1	708.54
2	01.05.02	Shifting, grading and rearrangement in beds	Bed/weeding	1	245.96	1	245.96
3	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak bedsor combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Watcher/ month	5	9194.00	100	459.70
		Total					1414.20
		cost of each plant (300 Plants per bed)					4.7140

10% escalation every year

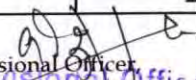


Forest Divisional Officer
 Mancherial

Advance Operations under Semi Mechanical Method with 3m x 3m espacement

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.01.00	ADVANCE OPERATION (PRE-PLANTING OPERATION) - All advance-operation works of plantations to be raised shall be completed before March. Perambulation of site, preparing site inspection report including type of vegetation and density, approval of site suitability and the category of jungle growth clearance, taking the images of the existing vegetation, preparation of treatment plan shall be prepared and approved in writing by DFO before taking up advance operation.				
02.08.01	Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform latest by December end.	1	356.65	Plantation	357
02.08.02	Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narepa, Somi, Jitregi, Billudu, Chenangi etc. and NTFP species like Ippa, Morri, Tani, Karaka, Vepa, Maredu, Tapasi, Tuniki, Chinta, Usuri, Nallajeedi etc.); Spreading the cut material all over the site; and Burning the same twice till completely burnt. The unsuitable area shall be excluded from the clearing operation and the expenditure shall be incurred for effective area only. All the above operations shall be completed before December.				
	(a) Sparse Jungle growth (<10% ground area covered with Jungle growth)	0.40	2081.36	Ha	833
	(b) Very light jungle growth (>10% and upto 20% covered with Jungle growth)	0.40	3128.53	Ha	1251
	(c) Light Jungle Growth (>20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.20	7350.00	Ha	1470
02.08.03	Uprootal of Stumps (excluding unsuitable patches) to a minimum depth of 45 cm with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal, and levelling. For retrieved encroached area, the approval of Circle Head is required and the approval should indicate clearly the density of stumps or vegetation to be removed through uprootal. The uprootal work can be carried out preferably through tender process.				
	(a) Sparse Jungle Growth (< 10% ground area covered with Jungle growth)	0.40	5184.30	Ha	2074
	(b) Very Light Jungle Growth (>10% and upto 20% ground area covered with Jungle growth)	0.40	10034.10	Ha	4014
	(c) Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.20	13044.80	Ha	2609
02.08.04	Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.				
	(a) Sparse Jungle Growth (< 10% ground area covered with Jungle growth)	0.40	5796.11	Ha	2318
	(b) Very Light Jungle Growth (>10% and upto 20% ground area covered with Jungle growth)	0.40	9197.79	Ha	3679
	(c) Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.20	10724.65	Ha	2145
			Total		20750
Unit Rate for 2020-21					20750


 Forest Divisional Officer
 Mancherla

Raising of Plantation under Semi Mechanical Method with 3m x 3m espacement

Unit area 1.00 Ha.

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
II	RAISING OF BLOCK PLANTATIONS				
02.09.	SEMI-MECHANICAL PLANTATION				
02.09.	PLANTING OPERATIONS DURING RAISING YEAR				
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1	1066.07	Ha	1066.07
	Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough (FOR UNTILLED AREA) - to be completed by 15th of June				
02.09.02	(b) Hard soils like gravel and morum	1	5109.90	Ha	5109.90
	Note: After intensive site preparation including clear-felling, burning, stump uprootal, removal of uprooted material, ploughing with the provision of removal of remnants of root suckers from soil, it is expected that there would not be any coppice growth subsequently at least for next 5-7 years.				
	Alignment & Stacking including demarcation of base line				
02.09.04	(c) 3X3 m espacement = 1111 planting points	1111	89.36	100No.	992.79
02.09.05	ii) Cost of preparation of stakes (2.0 m length) and transportation to site (subject to condition that the seedling height is 1.5m to 2.0m height) which includes cost of stake, coaltar application at the bottom of the stake (30 cm), transportation, fixing and tying.	1111	1200	100No.	13332.00
	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil				
02.15.03	b) 60 cm ³ pits (48.56/2 = 24.2812)	1111	24.28	Pit	26976.47
	PLANTING OPERATIONS DURING RAISING YEAR				
02.09.07	Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)				
	(b) 30 X 32.5 cm (12"X13") bag plants	1111	206.43	100 Nos.,	2293.00
02.09.08	Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance				
	(b) 30 X 32.5 cm (12"X13") bag plants	1111	153.00	100 Nos.,	1700.00
02.09.09	Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)				
	(b) 30 X 32.5 cm (12"X13") bag plants	1111	77.00	100 Nos.,	855.00
02.09.10	Internal transportation to planting points on head loads				
	(b) 30 X 32.5 cm (12"X13") bag plants	1111	142.01	100 Nos.,	1578
	PLANTING: Seedlings of local species of secondary hardwood along with their associates and NTFP species will have to be chosen for planting. The minimum height of the planting stock to be planted is 0.75 m - 1m height (excluding the height of the bag)				
02.09.11	Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. Similarly, the bag plants to be planted are to be dipped inside Chloropyriphos solution (5 ml of Chloropyriphos in 1 lit water) either at nursery site before transport or at plantation site before planting	1111	39.27	100 Nos.,	436
	Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos (Rs. 2/- per plant)	As per actual	2222	Ha.	2222
02.09.12	Planting in 60 cm ³ Pit	1111	970.88	100 Nos.,	10787

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.09.14	Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell - 4 waterings	1111	1059.44	100 Nos.,	11770
02.09.15	Replacement of Casualties: 20% during Raising Year & 25% in 1 st year The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.	50% of unit rate of original pitting during raising year and 100% during maint. year. Planting, transportation and internal transportation same as			
	Digging of pits	222	48.563	Each	10781
	Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)	222	206.43	100 Nos.,	458
	Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance	222	153.00	100 Nos.,	340
	Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)	222	77.00	100 Nos.,	171
	Internal transportation to planting points on head loads	222	142.01	100 Nos.,	315
	(b) Planting in 60 cm ³ Pit	222	970.88	100 Nos.,	2155
02.09.16	Cost of DAP @ 25 gm / planting point	1111	1.20	Each	1333
02.09.17	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAP application.	1111	39.27	100 Nos.,	436
02.09.18	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1111	124.95	100 Nos.,	1388
02.02.19	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	1111	656.25	100 Nos.,	7291
02.09.20	Inter-ploughing (during November) the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough				
	(b) Hard gravelly soil	1	3184.50	1.00	3185
02.09.21	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during October)	1111	124.22	100 Nos.,	1380
02.09.22	Uprootal of Mahaveera (<i>Hyptis suaveolens</i>) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before September-end at any cost before inter-ploughing.	1	3650.90	Ha.	3651
02.09.24	Contingencies provision for Raising of plantaitons:	As per actual			1000
02.09.25	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 20.00 ha. in extent and one more Casual labour allowed for multiples of 20.00 ha.	1	4138	Ha	4138
			Total		117140
Unit Rate for 2020-21					117140


 Forest Divisional Officer
 Mancherla

1st year maintenance of Plantation under Semi Mechanical Method with 3m x 3m espacement

Unit area 1.00 Ha.

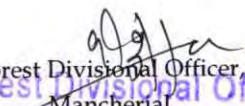
FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
	Cost of transportation of soil mixture for filling the pit and spreading around the pit - 25 % of pit - 0.25 x 0.6 cm x 0.6 cm x 0.6 cm	21.6	352.23	cum	7608
02.10.01	Replacement of Casualties: 25% in 1st year (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The casualty replacement shall be completed by end of July.		Pitting, planting, transportation and internal transportation same as prescribed in fresh		
	Digging of pits	278	48.563	Each	13500
	Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)	278	206.430	100 Nos.,	574
	Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance	278	153.000	100 Nos.,	425
	Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)	278	77.000	100 Nos.,	214
	Internal transportation to planting points on head loads	278	142.010	100 Nos.,	395
02.15.11	(b) Planting in 60 cm³ Pit	278	970.883	100 Nos.,	2699
02.02.11	Cost of DAP @ 25 gm / planting point	1111	1.12	Each	1244
02.09.14	Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell - 4 waterings	1111	1059.44	100 Nos.,	11770
02.10.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1111	124.95	100 Nos.,	1388
02.10.03	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	1111	656.25	100 Nos.,	7291
02.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	1	3650.90	1.00	3651
02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	1	2321.40	1.00	2321
02.10.06	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	1111	124.27	100.00	1381
02.10.07	Enumeration of row-wise survival and average growth twice a year - Number of plants planted and Number surviving (to be undertaken during May & Dec.) and entered in Plantation Journal. Minimum stocking of 90% and average minimum height of 2.5 m at the end of raising year				0
02.10.08	Contingencies provision for maintenance of plantations:				500
03.01.04	Formation of Sector Lines / Fire Lines to a width of 5 m by giving surface treatment (sector to be in conformity with slope direction). All stumps to be cut to ground level.	100	8.22	Rmt	822
02.10.09	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 20.00 ha. in extent and one more Casual labour allowed for multiples of 20.00 ha.	1	5517	Ha	5517
			Total		61300
Unit Rate for 2020-21					61300


Forest Divisional Officer,
Mancherial

2nd year maintenance Plantatation under Semi Mechanical Method with 3m x 3m espacement

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.11.01	Broadcasting of Stylosanthes hamata seeds in the interplanting rows of the plantations raised under semimechanical plantations by ploughing with a tractor mounted cultivator after receipt of good rains in the month of June-July in place of existing provision of interploughing in the month of September given for the 1st and 2nd year MAINTENANCE years of semi-mechanical plantations				
	(a) Cost of S. hamata Seeds	5	62.00	1	310
	(b) Inter ploughing using tractors with cultivator in 1st year maintenance and old plantations	1	1996.21	1	1996
	(c) Broadcasting of S. hamata seeds followed by by dragging / sweeping with a bunch of thorny branches to ensure a thin cover of soil over the broadcasted seeds.	1	88.83	1	89
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1111	656.25	100 Nos.,	7291
02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	1111	124.27	100 Nos.,	1381
02.11.05	Contingencies provision for maintenance of plantaitons:				
	i) Maintenance of Plantation Boards and Corner Stones				300
	ii) Contingencies and Miscellaneous				300
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
02.02.20	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 20.00 ha. in extent and one more Casual labour allowed for multiples of 20.00 ha.	1	5517	Ha	5517
			Total		17792
			Unit Rate for 2020-21		17792


 Forest Divisional Officer,
 Mancherla

3rd year maintenance Plantatation under Semi Mechanical Method with 3m x 3m espacement

Unit area 1.00 Ha,

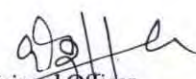
FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1111	656.25	100 Nos.,	7291
02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	1111	124.27	100 Nos.,	1381
02.11.05	Contingencies provision for maintenance of plantaitons:				
	i) Maintenance of Plantation Boards and Corner Stones				300
	ii) Contingencies and Miscellaneous				300
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
02.02.20	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 20.00 ha. in extent and one more Casual labour allowed for multiples of 20.00 ha.	1	2758	Ha	2758
			Total		12639
			Unit Rate for 2020-21		12639


 Forest Divisional Officer
 Mancherial

4th year maintenance Plantatation under Semi Mechanical Method with 3m x 3m espacement

Unit area 1.00 Ha,

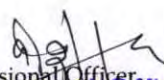
FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1111	656.25	100 Nos.,	7291
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	1111	124.27	100 Nos.,	1381
02.11.05	Contingencies provision for maintenance of plantaitons:				
	i) Maintenance of Plantation Boards and Corner Stones				300
	ii) Contingencies and Miscellaneous				300
			Total		9880
			Unit Rate for 2020-21		9880


 Forest Divisional Officer,
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5th year maintenance Plantatation under Semi Mechanical Method with 3m x 3m espacement

Unit area 1.00 Ha,

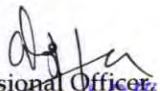
FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1111	656.25	100 Nos.,	7291
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	1111	124.27	100 Nos.,	1381
02.11.05	Contingencies provision for maintenance of plantaitons:				
	i) Maintenance of Plantation Boards and Corner Stones				300
	ii) Contingencies and Miscellaneous				300
			Total		9880
Unit Rate for 2020-21					9880


 Forest Divisional Officer
 Mancherial

6th year maintenance Plantatation under Semi Mechanical Method with 3m x 3m espacement

Unit area 1.00 Ha,

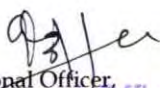
FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	1111	124.27	100 Nos.,	1381
			Total		1989
			Unit Rate for 2020-21		1989


Forest Divisional Officer
Mancherial

7th year maintenance Plantatation under Semi Mechanical Method with 3m x 3m espacement

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1111	656.25	100 Nos.,	7291
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
			Total		7899
		Unit Rate for 2020-21			7899


Forest Divisional Officer,
Mancherial

8th year maintenance Plantatation under Semi Mechanical Method with 3m x 3m espacement

Unit area 1.00 Ha.

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	1111	124.27	100 Nos.,	1381
			Total		1989
			Unit Rate for 2020-21		1989

Forest Divisional Officer,
Mancherial

9th year maintenance Plantatation under Semi Mechanical Method with 3m x 3m espacement

Unit area 1.00 Ha.

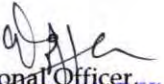
FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1111	656.25	100 Nos.,	7291
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
			Total		7899
			Unit Rate for 2020-21		7899


Forest Divisional Officer,
Mancheria
Mancheria

10th year maintenance Plantatation under Semi Mechanical Method with 3m x 3m espacement

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	1111	124.27	100 Nos.,	1381
			Total		1989
			Unit Rate for 2020-21		1989


Forest Divisional Officer
Mancherial

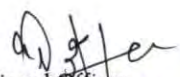
Advance Operations under Labour Intensive Method

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.01.00	ADVANCE OPERATION (PRE-PLANTING OPERATION) - All advance-operation works of plantations to be raised shall be completed before March. Perambulation of site, preparing site inspection report including type of vegetation and density, approval of site suitability and the category of jungle growth clearance, taking the images of the existing vegetation, preparation of treatment plan shall be prepared and approved in writing by DFO before taking up advance operation.				
02.01.01	Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform latest by December end.	1	374.48	Plantation	374
02.01.02	Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narepa, Somi, Jitregi, Billudu, Chenangi etc. and NTFP species like Ippa, Morri, Tani, Karaka, Vepa, Maredu, Tapasi, Tuniki, Chinta, Usuri, Nallajeedi etc.); Spreading the cut material all over the site; and Burning the same twice till completely burnt. All the above operations should be completed before December.				
	(a) Sparse Jungle growth (<10% ground area covered with Jungle growth)	0.30	2081.36	Ha	624
	(b) Very light jungle growth (>10% and upto 20% covered with Jungle growth)	0.30	3128.53	Ha	939
	(c) Light Jungle Growth (>20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.40	7350.00	Ha	2940
03.01.04	Formation of Sector Lines / Fire Lines to a width of 5 m by giving surface treatment (sector to be in conformity with slope direction). All stumps to be cut to ground level.	100	8.22	Rmt	822
02.01.05	Alignment and stacking including demarcation of baseline				
	(a) 200 plants per ha	200	118.91	100 No's	238
02.01.04	Cost of preparation of stakes (0.45 m length) and transportation to site	200	56.96	100 No's	114
02.01.06	Digging of pits during January to March				
	(b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual) - Rs.25.57 for 45 cm cube pit	200	60.61	Each	12122
SSR	Cost and transportation of soil mixtue for filling half of the pit and spreading around the pit - 0.6 cm x 0.6 cm x 0.6 cm = 0.216 cum	43.2	169.00	cum	7301
			Total		25474
			Unit Rate for 2020-21		25474


 Forest Divisional Officer,
 Mancherial

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.02.12	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAP application.	200	39.27	100 Nos.,	79
02.02.13	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	200	125.00	100 Nos.,	250
02.02.14	Circular weeding to a radius of 0.50 m around the plant (i.e., Aug - Sept)	200	125.00	100 Nos.,	250
02.02.15	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil	200	656.25	100 Nos.,	1313
02.02.16	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)				
	(b) Low rainfall zone > 800 m	1	1463.28	Ha.	1463
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times	100	608.27	100 Rmt	608
02.09.25	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 20.00 ha. in extent and one more Casual labour allowed for multiples of 20.00 ha.	1	4138	Ha	4138
			Total		21304
			Unit Rate for 2020-21		21304


 Forest Divisional Officer
 Mancherla

Raising of Plantation under Labour Intensive Method

Unit area 1.00 Ha.

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.02.00	Planting Operations during raising year				
02.02.01	Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)				
	(b) 30 X 32.5 cm (12"X13") bag plants	200	206.43	100 Nos.,	413.00
02.02.02	Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance				
	(b) 15 X 30 cm (9"X13") bag plants	200	153.00	100 Nos.,	306.00
02.02.03	Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)				
	(b) 30 X 32.5 cm (12"X13") bag plants	200	77.00	100 Nos.,	154.00
02.02.04	Internal transportation to planting points on head loads				
	(b) 30 X 32.5 cm (12"X13") bag plants	200	142.01	100 Nos.,	284
	<i>PLANTING: Seedlings of local species of secondary hardwood along with their associates and NTFP species will have to be chosen for planting. The minimum height of the planting stock to be planted is 0.75 m - 1m height (excluding the height of the bag)</i>				
02.02.05	Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. Similarly, the bag plants to be planted are to be dipped inside Chloropyriphos solution (5 ml of Chloropyriphos in 1 lit water) either at nursery site before transport or at plantation site before planting	200	39.27	100 Nos.,	79
02.02.06	Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos (Rs. 2/- per plant)	As per actual	800	Ha.	2222
02.02.07	Planting in 60 cm ³ Pit	200	970.88	100 Nos.,	1942
02.01.04	ii) Cost of preparation of stakes (2.0 m length) and transportation to site (subject to condition that the seedling height is 1.5m to 2.0m height)	200	1200.00	100.00	2400
02.02.09	Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell - 4 waterings	200	1059.44	100 Nos.,	2119
02.02.10	Replacement of Casualties: 20% during Raising Year & 25% in 1 st year The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.	50% of unit rate of original pitting during raising year and 100% during maint. year. Planting, transportation and internal transportation same as adopted during raising			
02.01.06	Digging of pits (b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual) - Rs.24.35 for 45 cm cube pit	40	60.61	Each	2424
02.02.01	Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)	40	206.43	100 Nos.,	83
02.02.02	Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance	40	153.00	100 Nos.,	61
02.02.03	Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)	40	77.00	100 Nos.,	31
02.02.04	Internal transportation to planting points on head loads	40	142.01	100 Nos.,	57
02.02.07	(b) Planting in 60 cm ³ Pit	40	970.88	100 Nos.,	388
02.02.11	Cost of DAP @ 25 gm / planting point	200	1.20	Each	240

1st year maintenance of Plantation under Labour Intensive Method

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
SSR	Cost of transportation of soil mixture for filling the pit and spreading around the pit - 25 % of pit - 0.25 x 0.6 cm x 0.6 cm x 0.6 cm	10.8	352.23	cum	3804
02.03.01	Replacement of Casualties: 25% in 1st year (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The casualty replacement shall be completed by end of July.	Pitting, planting, transportation and internal transportation same as prescribed in fresh planting			
02.01.06	Digging of pits (b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual) - Rs.24.35 for 45 cm cube pit	50	60.61	Each	3031
02.02.01	Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)	50	206.43	100 Nos.,	103
02.02.02	Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance	50	153.00	100 Nos.,	77
02.02.03	Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)	50	77.00	100 Nos.,	39
02.02.04	Internal transportation to planting points on head loads	50	142.01	100 Nos.,	71
02.02.07	(b) Planting in 60 cm ³ Pit	50	970.88	100 Nos.,	485
02.02.11	Cost of DAP @ 25 gm / planting point	200	1.12	Each	224
02.02.09	Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell - 2 waterings	200	1059.44	100 Nos.,	2119
02.03.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	200	125.00	100 Nos.,	250
02.03.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	200	125.00	100 Nos.,	250
02.03.04	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil	200	656.25	100 Nos.,	1313
02.03.05	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July -August)				
	(b) Low rainfall zone > 800 mm	1	1463.28	Ha.	1463
02.03.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	200	124.27	100 Nos.,	249
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times	100	608.27	100 Rmt	608
02.10.09	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 20.00 ha. in extent and one more Casual labour allowed for multiples of 20.00 ha.	1	5517	Ha	5517
			Total		19603
		Unit Rate for 2020-21			19603

Forest Divisional Officer
Mancherial

2nd year maintenance Plantatation under Labour Intensive Method

Unit area 1.00 Ha.

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.03.01	Replacement of Casualties: 20% during Raising Year & 25% in 1 st year The caualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year. - 5% proposed	100% of unit rate of original pitting during raising year and 100% during maint. year. Planting, transportation and internal transportation same as adopted during raising year			
02.01.06	Digging of pits (b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual) - Rs.24.35 for 45 cm cube pit	10	60.61	Each	606
02.02.01	Transportation of planting stock (including loading and unlaoding upto a distance of 5 Kms)	10	206.43	100 Nos.,	21
02.02.02	Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance	10	153.00	100 Nos.,	15
02.02.03	Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)	10	77.00	100 Nos.,	8
02.02.04	Internal transportation to planting points on head loads	10	142.01	100 Nos.,	14
02.02.07	(b) Planting in 60 cm ³ Pit	10	970.88	100 Nos.,	97
02.02.11	Cost of DAP @ 25 gm / planting point	200	1.12	Each	224
02.04.01	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	200	125.00	100 Nos.,	250
02.04.02	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	200	125.00	100 Nos.,	250
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil	200	656.25	100 Nos.,	1313
02.04.04	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July -August)				
	(b) Low rainfall zone > 800 mm	1	1463.28	Ha.	1463
02.03.06	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October	200	124.27	100 Nos.,	249
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
02.02.20	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 20.00 ha. in extent and one more Casual labour allowed for multiples of 20.00 ha.	1	5517	Ha	5517
			Total		10635
			Unit Rate for 2020-21		10635


 Forest Divisional Officer,
 Mancheril

3rd year maintenance Plantatation under Labour Intensive Method

Unit area 1.00 Ha,

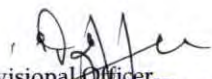
FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.04.01	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	200	125.00	100 Nos.,	250
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil	200	656.25	100 Nos.,	1313
02.03.06	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October	200	124.27	100 Nos.,	249
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
02.04.06	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 20.00 ha. in extent and one more Casual labour allowed for multiples of 20.00 ha.	1	2758	Ha	2758
			Total		5179
			Unit Rate for 2020-21		5179


 Forest Divisional Officer,
 Mancherla
Mancherla

4th year maintenance Plantatation under Labour Intensive Method

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.04.01	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	200	125.00	100 Nos.,	250
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil	200	656.25	100 Nos.,	1313
02.03.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	200	124.27	100 Nos.,	249
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
			Total		2420
		Unit Rate for 2020-21			2420


 Forest Divisional Officer
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5th year maintenance Plantatation under Labour Intensive Method

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.03.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	200	124.27	100 Nos.,	249
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil -1 time	200	656.25	100 Nos.,	1313
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
			Total		2170
		Unit Rate for 2020-21			2170


Forest Divisional Officer
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6th year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.03.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	200	124.27	100 Nos.,	249
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
			Total		857
Unit Rate for 2020-21					857

Forest Divisional Officer,
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7th year maintenance Plantatation under Labour Intensive Method

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil -1 time	200	656.25	100 Nos.,	1313
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
			Total		1921
		Unit Rate for 2020-21			1921


Forest Divisional Officer,
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8th year maintenance Plantatation under Labour Intensive Method

Unit area 1.00 Ha.

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.03.06	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October	200	124.27	100 Nos.,	249
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
			Total		857
			Unit Rate for 2020-21		857


Forest Divisional Officer
Mancherial

9th year maintenance Plantatation under Labour Intensive Method

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil -1 time	200	656.25	100 Nos.,	1313
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
			Total		1921
		Unit Rate for 2020-21			1921

Forest Divisional Officer
Mancherial

10th year maintenance Plantatation under Labour Intensive Method

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.03.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	200	124.27	100 Nos.,	249
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
			Total		857
			Unit Rate for 2020-21		857


 Forest Divisional Officer
 Mancherial